L Number	Hits	Search Text	DB	Time stamp
-	0	("link tree" or "link trees" or (link adj2 tree)) same position! same object$1 and distance$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:03
-	73	("link tree" or "link trees" or (link adj2 tree)) and position! and object$1 and distance$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/07 20:27
-	18	("5295261" \| "5388255" \| "5515488" \| "5524202" \| "5544310" \| "5546529" \| "5590250" \| "5615325" \| "5619632" \| "5675510" \| "5712981" \| "5751965" \| "5892917" \| "5910803" \| "5923328" \| "5937163" \| "6035330" \| "6189019").PN.	USPAT	2004/01/07 19:08
-	10	("link tree" or "link trees") and position! same object$1 and distance$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 16:57
-	145	("link tree" or "link trees") and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:50
-	80	(("link tree" or "link trees") and @ad<20010326) and direction$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 11:48
-	38	((("link tree" or "link trees") and @ad<20010326) and direction$) and distanc$2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 11:49
-	12	((((("link tree" or "link trees") and @ad<20010326) and direction$) and distanc$2) and (link$3 same object$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 11:49
-	12	(("link tree" or "link trees") and @ad<20010326) and (object$1 near link$3 and @ad<20010326)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 11:55
-	501	("object link" or "link object" or "objects link") and tree$ and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:57
-	78	("object link" or "link object" or "objects link") same tree$ and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 12:04
-	37	("object link" or "link object" or "objects link") same tree$ and (position! or distance!) and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 12:41
-	2	"5499330" .pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 12:41
-	619	link and "cross-shaped" and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:56
-	0	(link and "cross-shaped" and @ad<20010326) and "right-direction"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:54
-	1	(link and "cross-shaped" and @ad<20010326) and "right link"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:55

-	0	(link and "cross-shaped" and @ad<20010326) and ("WebTV" or "WebPAD" or "set-top")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:56
-	2271	link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:04
-	4	(link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326) and (("object link" or "link object" or "objects link") and tree$ and @ad<20010326)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 13:57
-	37	(link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326) and ("object link" or "link object" or "objects link")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 14:37
-	25	((link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326) and ("object link" or "link object" or "objects link")) and position!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:05
-	1	(link and "cross-shaped" and @ad<20010326) and ("object link" or "link object" or "objects link") and position	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:03
-	10	set$5 same ("object link" or "link object" or "objects link") and link and ("WebTV" or "WebPAD" or "set-top") and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:42
-	25	((link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326) and ("object link" or "link object" or "objects link")) and position!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:05
-	10	(set$5 same ("object link" or "link object" or "objects link") and link and ("WebTV" or "WebPAD" or "set-top") and position! and @ad<20010326) and (((link and ("WebTV" or "WebPAD" or "set-top") and @ad<20010326) and ("object link" or "link object" or "objects link")) and position!)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:06
-	239	set$5 same ("object link" or "link object" or "objects link") and link and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:10
-	105	(set$5 same ("object link" or "link object" or "objects link") and link and position! and @ad<20010326) and frame! and direction$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/13 18:42
-	577	set$5 same link$1 and ("object link" or "link object" or "objects link") and link and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 17:13
-	239	set$5 same link$1 same ("object link" or "link object" or "objects link") and link and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:42
-	76	(set$5 same link$1 same ("object link" or "link object" or "objects link") and link and position! and @ad<20010326) and frame$1 and distance$1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 16:43
-	51	("set link" or "setting link" or "set links" or "setting links") same object$1 and link and distance! and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 17:22
-	13	("setting link" or "setting links") same object$1 and link and distance! and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 17:31

-	71	("setting link" or "setting links" or "connetting objects" or "connect objects" or "connetting object" or "connect object") same object$1 and link and distance! and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 18:00
-	0	(settin or connet$) same objects near2 links and distance! and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/08 18:02
-	29	(setting or connet$6) same (objects near2 links) and distance! and position! and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 11:50
-	8	("4752889" \| "5528735" \| "5544352" \| "5671381" \| "5864845" \| "5864846" \| "5864863" \| "5884309").PN.	USPAT	2004/01/08 20:45
-	2	"20020178142"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/09 18:46
-	10	(set$5 same ("object link" or "link object" or "objects link") and link and position! and @ad<20010326) and (predetermin$2 or determin$2) near2 direction$1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/13 18:43
-	0	20020178142.URPN.	USPAT	2004/10/13 19:10
-	2	(setting or connet$6) same (objects near2 links) and (predetermine$1 near2 direction$1) and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 16:29
-	2	6108698.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 16:29
-	256	("link tree" or "link trees" or link$1) same position! same object$1 same distance$1 and direction$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 16:58
-	80	("link tree" or "link trees" or link$1) same position! same object$1 same distance$1 same direction$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 16:59
-	80	("link tree" or "link trees" or link$1) same position! same object$1 same distance$1 same direction$1 and ("link tree" or "link trees" or link$1) and position$1 and object$1 and distance$1 and direction$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 17:04
-	0	("link tree" or "link trees") same position! same object$1 same distance$1 same direction$1 and ("link tree" or "link trees" or link$1) and position$1 and object$1 and distance$1 and direction$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 17:04
-	186	("link tree" or "link trees" or link$1) same object$1 same distance$1 same direction$1 and ("link tree" or "link trees" or link$1) and position$1 and object$1 and distance$1 and direction$1 and @ad<20010326	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/14 17:05

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1 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

2 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Full text available: pdf(6.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

3 A general framework for prefetch scheduling in linked data structures and its application to multi-chain prefetching

Seungryul Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung

May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Full text available: pdf(2.45 MB) Additional Information: full citation, abstract, references, index terms

Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer chains provides a source of memory parallelism. This article investigates exploiting such *interchain memory parallelism* for the purpose of memory latency tolerance, using a technique called *multi--chain prefetching*. Previous work ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

4 Uni-directional hypercubes
Chih-Hsiang Chou, David H. C. Du
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references

Uni-directional hypercubes are hypercube interconnection topologies with simplex uni-directional links. While accommodating large number of nodes, uni-directional hypercubes require less complicated communication hardware than conventional bi-directional hypercubes. In addition, they alleviate the pin-limitation problem encountered in fabricating VLSI hypercubes and allow hypercube implementation of the Metropolitan Area Networks using optical fiber links. We propose in this paper two novel sche ...

5 A unified approach to loop-free routing using distance vectors or link states
J. J. Garcia-Luna-Aceves
August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols**, Volume 19 Issue 4

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a unified approach for the dynamic computation of shortest paths in a computer network using either distance vectors or link states. We describe a distributed algorithm that provides loop-free paths at every instant and extends or improves algorithms introduced previously by Chandy and Misra, Jaffe and Moss, Merlin and Segall, and the author. Our approach treats the problem of distributed shortest-path routing as one of diffusing computations, which was first proposed by Dijkstra ...

6 New dynamic SPT algorithm based on a ball-and-string model
Paolo Narváez, Kai-Yeung Siu, Hong-Yi Tzeng
December 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 6

Full text available: pdf(243.84 KB) Additional Information: full citation, abstract, references, citings, index terms

A key functionality in today's widely used interior gateway routing protocols such as OSPF and IS-IS involves the computation of a shortest path tree (SPT). In many existing commercial routers, the computation of an SPT is done from scratch following changes in the link states of the network. As there may coexist multiple SPTs in a network with a set of given link states, such recomputation of an entire SPT not only is inefficient but also causes frequent unnecessary changes in the topology of a ...

Keywords: Algorithms, communication system routing, graph theory, graphs, trees

7 Multicast tree generation in networks with asymmetric links
S. Ramanathan
August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Steiner trees, approximation algorithms, asymmetric links, directed graph, multicast

8 Multicast and antennas: Antenna orientation optimization for minimum-energy multicast

tree construction in wireless ad hoc networks with directional antennas
S. Guo, O. W. Yang
May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing**
Full text available: pdf(329.65 KB) Additional Information: full citation, abstract, references, index terms

Energy conservation is a critical issue in wireless ad hoc networks since batteries are the only energy source to power the nodes. One major metric for energy conservation is to route a communication session along the routes which require the lowest total.

Keywords: directional antenna, integer programming, minimum-energy routing, multicast tree, wireless ad hoc networks

9 An efficient algorithm for link-distance problems
Y. Ke
June 1989 **Proceedings of the fifth annual symposium on Computational geometry**
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms

The link distance between two points inside a simple polygon P is defined to be the minimum number of edges required to form a polygonal path inside P that connects the points. A link furthest neighbor of a point p &Egr; P is a point of P whose link distance is the maximum from p. The link center of P is the collection of p ...

10 Transmission-efficient routing in wireless networks using link-state information
J. J. Garcia-Luna-Aceves, Marcelo Spohn
June 2001 **Mobile Networks and Applications**, Volume 6 Issue 3
Full text available: pdf(315.33 KB) Additional Information: full citation, abstract, references, index terms

The efficiency with which the routing protocol of a multihop packet-radio network uses transmission bandwidth is critical to the ability of the network nodes to conserve energy. We present and verify the source-tree adaptive routing (STAR) protocol, which we show through simulation experiments to be far more efficient than both table-driven and on-demand routing protocols proposed for wireless networks in the recent past. A router in STAR communicates to its neighbors the parameters of its ...

Keywords: link-state routing protocol, mobile wireless networks, source routing tree

11 New dynamic algorithms for shortest path tree computation
Paolo Narváez, Kai-Yeung Siu, Hong-Yi Tzeng
December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6
Full text available: pdf(251.39 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: routing, shortest path trees

12 Optimal evaluation of array expressions on massively parallel machines
Siddhartha Chatterjee, John R. Gilbert, Robert Schreiber, Shang-Hua Teng
January 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 1
Full text available: pdf(2.18 MB) Additional Information: full citation, abstract, references, citings, index terms

We investigate the problem of evaluating Fortran 90-style array expressions on massively parallel distributed-memory machines. On such a machine, an elementwise operation can be performed in constant time for arrays whose corresponding elements are in the same processor. If the arrays are not aligned in this manner, the cost of aligning them is part of the cost of evaluating the expression tree. The choice of where to perform the operation then affects this cost.We describe the c ...

Keywords: Fortran 90, array alignment, compact dynamic programming, data-parallel programming, distributed memory parallel processors, fixed topology Steiner tree

13 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

14 Communication In X-TREE, A Modular Multiprocessor System

C. H. Séquin, A. M. Despain, D. A. Patterson

December 1978 **Proceedings of the 1978 annual conference**

Full text available: pdf(832.18 KB) Additional Information: full citation, abstract, references, citings, index terms

A communication network for a tree-structured assembly (X-TREE) of single-chip processors is described, and considerations for selecting this particular approach are discussed. The communication links between the processors are high-speed, byte-parallel connections with an asynchronous handshaking protocol. Each node of X-TREE consists of a powerful processor, a switching network and a dedicated communications controller. The latter checks the availability of the links terminating in this n ...

Keywords: Address space, Communication, Computer network, Message format, Message routing, Modular computer, Multiprocessor, Routing algorithm, Single-chip processor, Switching network

15 Faster suffix tree construction with missing suffix links

Richard Cole, Ramesh Hariharan

May 1999 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Full text available: pdf(1.04 MB) Additional Information: full citation, references, index terms

16 Model-based recognition in robot vision

Roland T. Chin, Charles R. Dyer

March 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 1

Full text available: pdf(4.94 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a comparative study and survey of model-based object-recognition

algorithms for robot vision. The goal of these algorithms is to recognize the identity, position, and orientation of randomly oriented industrial parts. In one form this is commonly referred to as the "bin-picking" problem, in which the parts to be recognized are presented in a jumbled bin. The paper is organized according to 2-D, 2½-D, and 3-D object representations, which are used as the basis for ...

17 Distributed, scalable routing based on link-state vectors

Jochen Behrens, J. J. Garcia-Luna-Aceves

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A new family of routing algorithms for the distributed maintenance of routing information in large networks and internets is introduced. This family is called link vector algorithms (LVA), and is based on the selective diffusion of link-state information based on the distributed computation of preferred paths, rather than on the flooding of complete link-state information based on the distributed computation of preferred paths, rather than on the flooding of complete link-state information ...

18 Principle for high speed network control: congestion-and deadlock-freeness, self-routing, and a single buffer per link

Yoram Ofek, Moti Yung

August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing**

Full text available: pdf(1.50 MB) Additional Information: full citation, references, citings, index terms

19 Roundtrip spanners and roundtrip routing in directed graphs

Liam Roditty, Mikkel Thorup, Uri Zwick

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(802.09 KB) Additional Information: full citation, abstract, references, citings

We introduce the notion of *roundtrip-spanners* of weighted *directed* graphs and describe efficient algorithms for their construction. For every integer $k \geqslant 1$ and any $\varepsilon > 0$, we show that any directed graph on n vertices with edge weights in the range $[1, W]$ has a $(2k + \varepsilon)$-roundtrip-spanner with $O(k^2/\varepsilon n^{1+1/k}\log(nW))$ edges. We then extend these constructions and obtain comp ...

20 Oracles for distances avoiding a link-failure

Camil Demetrescu, Mikkel Thorup

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(583.16 KB) Additional Information: full citation, abstract, references

For a directed graph G we consider queries of the form: "What is the shortest path distance from vertex x to vertex y in G avoiding a failed link (u, v), and what edge leaving x should we use to get on a such a shortest path?" We show that an oracle for such queries can be stored in $O(n^2 \log n)$ space with a query time of $O(\log n)$. No non-trivial solution was known for this problem.

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